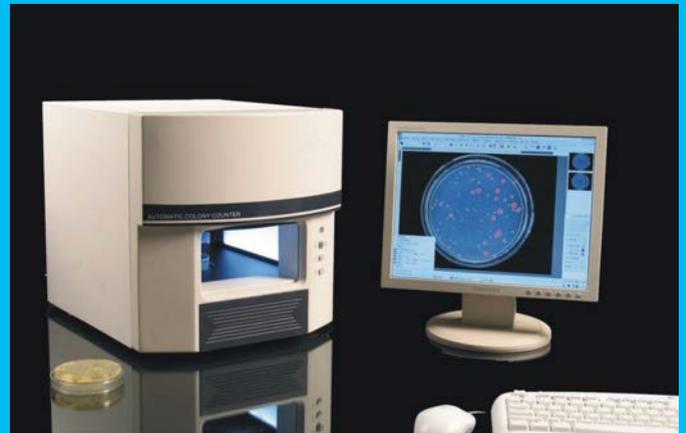


Automated Colony Counter

Colonfast VH1/VH2

- Automatic Counts pour, spread and spiral plates; filters & 3M Petrifilm
- Automatic inhibition zone measurement
- Patented Dark Field Suspension Diffuse-LED lighting ensures excellent contrast between colonies and substrate
- Automatic correction of any defects , adapts to any kind of agar
- Automatically separate colony and debris particles
- Colony classification by colour, size and shape to be combined at choice
- Automated separation of clustered colonies
- Database capability that saves each plate image and results, Live data transfer to Microsoft Excel



ANTITECK LIFE SCIENCES LIMITED

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Technical Data

Colonfast VH1/VH2

Automated Colony Counter

| Technical Data | Colonfast VH1 | Colonfast VH2 |
|-----------------------------------|--|--|
| Imaging Device | CMOS with fixed focus lens, Resolution 2048X1536 Pixel | |
| Minimum colony size | Smallest detectable colony shall be 0.08mm | |
| Illumination | Entirely sealed chamber, Dark Field Suspension Diffuse-LED system | |
| Image Processing | | Image adaptive enhancement, RGB Component Adjust, Sharpen, Smooth, Filter, Edge Filters, Morphological Filters, Segmentation |
| Image editing | | Edit text and image |
| Automatic colony counting | Pour, spread plates; filters & 3M Petrifilm | |
| Colony Recognition | ANTITECK "colonfast" colony Intelligent recognition Technology | |
| Count Speed | 300 colony counted in less than 1 second | |
| Selected areas | Round, rectangular, semicircle, fan-shaped or arbitrary shape | |
| Colony selection | Counting according to color, diameters | |
| "Add"/"Delete" | Counting result be corrected manually by using the mouse. | |
| Separate overlapping colonies | Automatic or manual mode | |
| Automatic rejection of impurities | According to the difference between colonies and impurities in shape, size and color. | |
| Measurement | Automatic measuring area, perimeter, diameter, Roundness etc; manual measuring Line, Angle, Rectangle, Circular, Arc, Curve | |
| Data Handling | Database for storage of images and results, with data query, reporting, data transfer capabilities. | |
| Data security | Password protection of configuration with different user levels | |
| Inhibition zone sizing | | Automatic measurement of the inhibition zone |
| Dimensions (w × h × d) | 340 x 340x 415mm | |
| Power | 100-240 V, 50-60 Hz, 60 w | |
| Weight | Approx. 12 kg | |
| Minimum PC requirements | Windows XP compatible, Pentium III Processor, 128 MB RAM, Free storage minimum: 1 GB | |
| Software | Software for colony count | Software for colony count; Software for inhibition zone sizing |

ANTITECK automated colony counter, with the advanced image acquisition system, professional image processing software, provides fast and accurate colony counting and zone sizing. It can be widely applied in Quality Control in food, beverage and pharmaceutical industries, and public health departments as well as environmental monitoring.

- 2048X1536 pixel high resolution digital camera with a fixed focus lens relays a High-definition colony image
- ANTITECK "colonfast" colony Intelligent recognition Technology, Fast accurate counts of bacterial and yeast colonies, mammalian cells, bacteriophage plaques



- **Database management**---All results and images can be saved for later re-evaluation, Elimination of transcription errors. Colony count/size data transferred directly to Microsoft Excel

- Entirely sealed diffuse-LED light system with Suspension Dark Field, prevents from outside light, making it easy to recognize micro colonies deep in culture medium

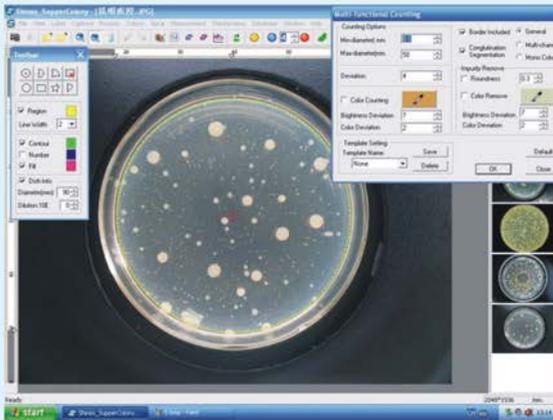


- Spiral plating dishes are counted automatically in consideration of the counting grid

Antiteck

--Automated Colony Counter

Provides many useful functions for colony image analysis and data statistics .
Those functions are as follows:



Regional statistics can be arbitrary choice, such as: round, rectangular, semi-circle, fan-shaped or arbitrary shape

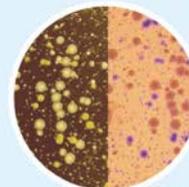


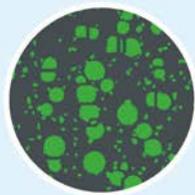
Image Processing: image adaptive enhancement, RGB Component Adjust, Sharpen, Smooth, Filter, Edge Filters, Morphological Filters, Segmentation



Colony selection: Counting according to brightness, colour, diameters, sharp, selected areas



Eliminate objects such as debris based upon size, shape and color



Automatically or manually identify and separate overlapping colonies



Entering the Petri dish diameter and dilution, the colonies per ml are calculated automatically

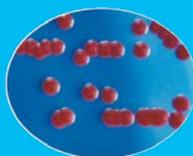


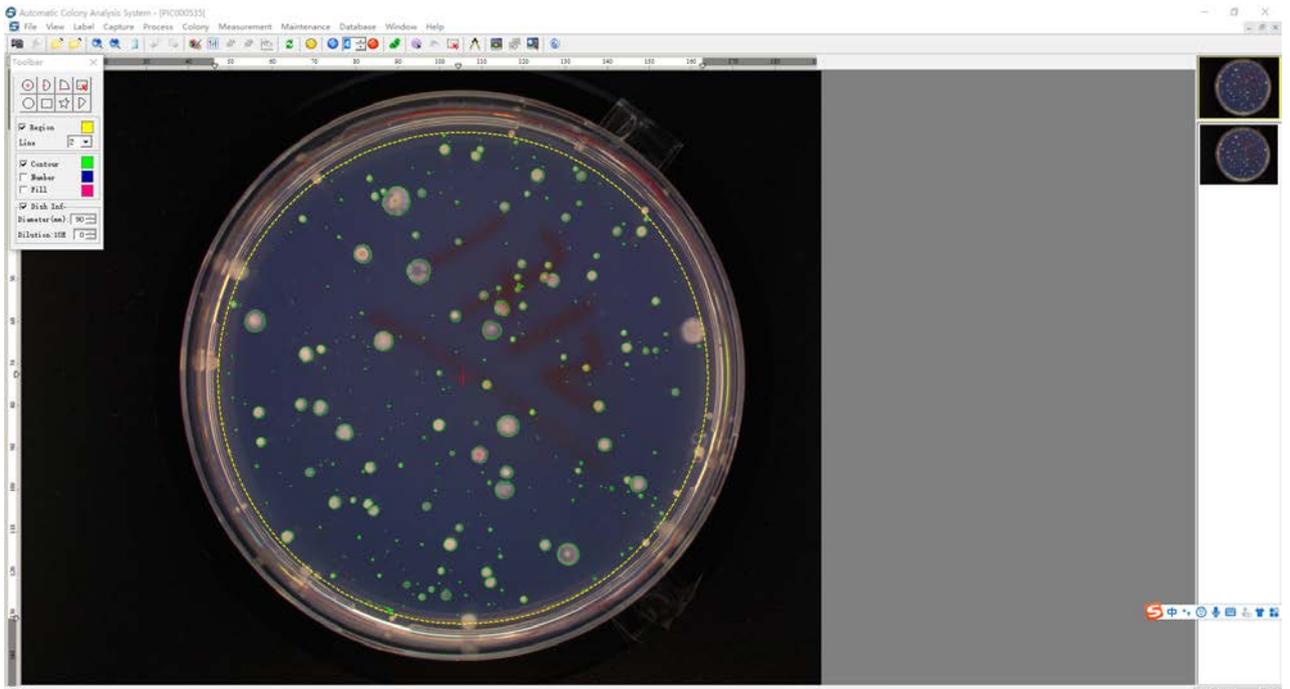
Demonstrates many kinds of statistical result, such as counting region area, total colony no., unit area total, diameter classification



Provide diameter, size, roundness, perimeter, and other detailed parameters of each colony

- Inhibition zone measurement-- several zones can be measured at a time with high levels of accuracy and reproducibility
- Password protection of configuration with different user levels





Number:1
Date:2022-4-12

Test Report

Sample Number:1
Inspection Department:1
Delivery Date:1

Inspection:1
Check :1
Inspection Date:2022-4-12 8:42

Analysis Conclusion

Spiral spreading information:
Dish diameter:100 mm,Spiral Spreading Linear Mode 50ul,Volume:50.0 ul



Fig.1 Image of Colony

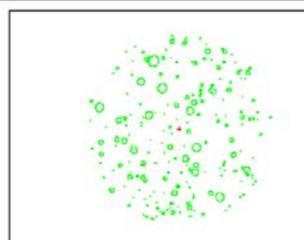


Fig.2 Image of Analysis

| | A | B | C | D | E | F | G | H |
|----|----------|------------|-----------------------|-------------|--------|-------------|------------------|-----------------|
| 1 | 'Number' | 'Location' | 'Equivalent_Diameter' | 'Perimeter' | 'Area' | 'Roundness' | 'Short-diameter' | 'Long-diameter' |
| 2 | 1 | (1755,269) | 0.70 | 2.6 | 0.4 | 0.93 | 0.62 | 0.67 |
| 3 | 2 | (1907,285) | 0.19 | 0.5 | 0.1 | 0.67 | 0.12 | 0.18 |
| 4 | 3 | (2056,296) | 0.91 | 3.4 | 0.7 | 0.87 | 0.80 | 0.92 |
| 5 | 4 | (1778,293) | 0.29 | 1.0 | 0.1 | 0.64 | 0.17 | 0.26 |
| 6 | 5 | (1758,326) | 2.48 | 10.0 | 4.9 | 0.93 | 2.35 | 2.55 |
| 7 | 6 | (1895,342) | 2.72 | 14.0 | 5.8 | 0.39 | 1.40 | 3.64 |
| 8 | 7 | (2130,359) | 0.45 | 1.6 | 0.2 | 0.88 | 0.37 | 0.42 |
| 9 | 8 | (2042,359) | 0.18 | 0.4 | 0.1 | 1.00 | 0.12 | 0.12 |
| 10 | 9 | (1353,383) | 0.42 | 1.4 | 0.2 | 0.84 | 0.35 | 0.42 |
| 11 | 10 | (2167,398) | 0.32 | 1.0 | 0.1 | 0.60 | 0.18 | 0.29 |
| 12 | 11 | (2304,407) | 1.24 | 4.7 | 1.2 | 0.90 | 1.11 | 1.24 |
| 13 | 12 | (1625,402) | 0.29 | 1.0 | 0.1 | 0.90 | 0.23 | 0.26 |
| 14 | 13 | (2059,405) | 0.32 | 1.0 | 0.1 | 0.71 | 0.23 | 0.33 |
| 15 | 14 | (2145,434) | 2.98 | 11.9 | 7.0 | 0.92 | 2.81 | 3.07 |
| 16 | 15 | (1783,415) | 0.13 | 0.3 | 0.1 | 0.01 | 0.01 | 0.09 |
| 17 | 16 | (1334,419) | 0.24 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 18 | 17 | (1713,419) | 0.15 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 19 | 18 | (2326,436) | 2.08 | 8.3 | 3.4 | 0.82 | 1.81 | 2.20 |
| 20 | 19 | (1693,425) | 0.56 | 2.1 | 0.3 | 0.81 | 0.46 | 0.58 |
| 21 | 20 | (1446,446) | 1.40 | 5.4 | 1.6 | 0.94 | 1.30 | 1.39 |
| 22 | 21 | (1261,441) | 0.22 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 23 | 22 | (1290,455) | 0.31 | 1.0 | 0.1 | 0.90 | 0.23 | 0.26 |
| 24 | 23 | (2404,468) | 0.29 | 1.0 | 0.1 | 0.90 | 0.23 | 0.26 |
| 25 | 24 | (1553,540) | 6.65 | 31.6 | 34.7 | 0.79 | 6.03 | 7.71 |
| 26 | 25 | (1789,482) | 0.15 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 27 | 26 | (1663,506) | 1.80 | 7.0 | 2.6 | 0.90 | 1.66 | 1.86 |
| 28 | 27 | (2102,510) | 1.22 | 4.7 | 1.2 | 0.89 | 1.08 | 1.21 |
| 29 | 28 | (1743,506) | 0.26 | 0.8 | 0.1 | 0.64 | 0.17 | 0.26 |
| 30 | 29 | (1469,521) | 1.83 | 7.2 | 2.7 | 0.86 | 1.63 | 1.89 |
| 31 | 30 | (2184,527) | 0.61 | 2.4 | 0.3 | 0.69 | 0.46 | 0.67 |
| 32 | 31 | (1328,534) | 0.58 | 2.1 | 0.3 | 0.84 | 0.48 | 0.57 |

| | | | | | | | | |
|----|----|-------------|------|------|------|------|------|------|
| 33 | 32 | (1810,544) | 0.82 | 3.1 | 0.6 | 0.90 | 0.73 | 0.81 |
| 34 | 33 | (2318,549) | 1.15 | 4.4 | 1.1 | 0.89 | 1.03 | 1.16 |
| 35 | 34 | (1971,544) | 0.25 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 36 | 35 | (2008,564) | 2.21 | 8.7 | 3.9 | 0.93 | 2.07 | 2.24 |
| 37 | 36 | (2440,550) | 0.13 | 0.3 | 0.1 | 0.01 | 0.01 | 0.09 |
| 38 | 37 | (2451,571) | 0.23 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 39 | 38 | (2262,608) | 1.93 | 7.5 | 3.0 | 0.93 | 1.83 | 1.97 |
| 40 | 39 | (1168,614) | 1.66 | 6.4 | 2.2 | 0.90 | 1.53 | 1.71 |
| 41 | 40 | (2598,614) | 1.17 | 4.5 | 1.1 | 0.83 | 1.00 | 1.22 |
| 42 | 41 | (2503,635) | 0.63 | 2.3 | 0.4 | 0.93 | 0.58 | 0.62 |
| 43 | 42 | (2578,666) | 2.36 | 9.3 | 4.4 | 0.92 | 2.22 | 2.42 |
| 44 | 43 | (2475,665) | 1.98 | 7.9 | 3.1 | 0.86 | 1.78 | 2.08 |
| 45 | 44 | (1266,652) | 0.25 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 46 | 45 | (1119,667) | 0.33 | 1.1 | 0.1 | 0.81 | 0.23 | 0.29 |
| 47 | 46 | (2237,666) | 0.16 | 0.4 | 0.1 | 0.51 | 0.06 | 0.12 |
| 48 | 47 | (1638,681) | 1.61 | 6.3 | 2.1 | 0.94 | 1.50 | 1.62 |
| 49 | 48 | (1320,689) | 0.77 | 2.8 | 0.5 | 0.77 | 0.62 | 0.81 |
| 50 | 49 | (1816,710) | 1.38 | 5.5 | 1.5 | 0.92 | 1.28 | 1.40 |
| 51 | 50 | (2015,716) | 0.35 | 1.2 | 0.1 | 0.80 | 0.26 | 0.33 |
| 52 | 51 | (2504,719) | 0.51 | 1.8 | 0.3 | 0.79 | 0.40 | 0.51 |
| 53 | 52 | (1417,760) | 4.19 | 17.0 | 13.8 | 0.92 | 3.96 | 4.34 |
| 54 | 53 | (2552,725) | 0.30 | 1.0 | 0.1 | 0.81 | 0.23 | 0.29 |
| 55 | 54 | (2277,735) | 0.24 | 0.7 | 0.1 | 0.51 | 0.12 | 0.23 |
| 56 | 55 | (1039,740) | 0.19 | 0.5 | 0.1 | 0.67 | 0.12 | 0.18 |
| 57 | 56 | (2390,767) | 1.33 | 5.2 | 1.4 | 0.90 | 1.20 | 1.34 |
| 58 | 57 | (1649,832) | 5.52 | 23.1 | 24.0 | 0.92 | 5.20 | 5.71 |
| 59 | 58 | (2079,800) | 1.87 | 7.3 | 2.8 | 0.92 | 1.75 | 1.90 |
| 60 | 59 | (2189,806) | 1.51 | 5.9 | 1.8 | 0.91 | 1.38 | 1.53 |
| 61 | 60 | (1381,831) | 0.25 | 0.8 | 0.1 | 0.71 | 0.17 | 0.23 |
| 62 | 61 | (2371,850) | 2.33 | 9.3 | 4.3 | 0.92 | 2.17 | 2.39 |
| 63 | 62 | (973,833) | 0.19 | 0.5 | 0.1 | 0.67 | 0.12 | 0.18 |
| 64 | 63 | (2195,867) | 3.69 | 16.4 | 10.7 | 0.55 | 2.51 | 4.61 |
| 65 | 64 | (2062,856) | 1.45 | 5.8 | 1.7 | 0.88 | 1.33 | 1.53 |
| 66 | 65 | (1124,866) | 0.13 | 0.3 | 0.1 | 0.01 | 0.01 | 0.09 |
| 67 | 66 | (1438,872) | 0.15 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 68 | 67 | (2717,876) | 0.23 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 69 | 68 | (2062,900) | 1.43 | 7.5 | 1.6 | 0.46 | 0.92 | 2.00 |
| 70 | 69 | (2080,893) | 0.54 | 1.9 | 0.3 | 0.90 | 0.46 | 0.51 |
| 71 | 70 | (1273,893) | 0.40 | 1.4 | 0.2 | 0.70 | 0.29 | 0.42 |
| 72 | 71 | (1983,901) | 1.10 | 4.3 | 1.0 | 0.94 | 1.02 | 1.09 |
| 73 | 72 | (1921,931) | 1.98 | 7.8 | 3.1 | 0.89 | 1.79 | 2.03 |
| 74 | 73 | (1981,922) | 0.21 | 0.6 | 0.1 | 0.51 | 0.12 | 0.23 |
| 75 | 74 | (2516,922) | 0.13 | 0.3 | 0.1 | 0.01 | 0.01 | 0.09 |
| 76 | 75 | (2382,926) | 0.16 | 0.4 | 0.1 | 0.51 | 0.06 | 0.12 |
| 77 | 76 | (2637,956) | 1.77 | 7.2 | 2.5 | 0.86 | 1.62 | 1.89 |
| 78 | 77 | (2303,956) | 0.31 | 1.0 | 0.1 | 0.90 | 0.23 | 0.26 |
| 79 | 78 | (881,968) | 1.47 | 5.9 | 1.7 | 0.90 | 1.36 | 1.52 |
| 80 | 79 | (1997,986) | 3.46 | 14.4 | 9.4 | 0.79 | 3.08 | 3.91 |
| 81 | 80 | (2084,975) | 1.79 | 7.0 | 2.5 | 0.91 | 1.64 | 1.81 |
| 82 | 81 | (2358,962) | 0.25 | 0.8 | 0.1 | 0.71 | 0.17 | 0.23 |
| 83 | 82 | (1123,962) | 0.27 | 0.9 | 0.1 | 0.57 | 0.17 | 0.29 |
| 84 | 83 | (909,969) | 0.27 | 0.8 | 0.1 | 0.68 | 0.18 | 0.26 |
| 85 | 84 | (969,1037) | 4.90 | 20.1 | 18.9 | 0.89 | 4.57 | 5.18 |
| 86 | 85 | (1803,1017) | 2.43 | 9.5 | 4.7 | 0.92 | 2.28 | 2.49 |
| 87 | 86 | (1415,1005) | 0.70 | 3.0 | 0.4 | 0.74 | 0.57 | 0.77 |
| 88 | 87 | (1709,1015) | 0.33 | 1.1 | 0.1 | 0.81 | 0.23 | 0.29 |
| 89 | 88 | (1369,1024) | 0.24 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 90 | 89 | (1955,1074) | 4.27 | 18.3 | 14.3 | 0.86 | 3.85 | 4.48 |

| | | | | | | | | |
|-----|-----|-------------|------|------|------|------|------|------|
| 91 | 90 | (2066,1046) | 0.20 | 0.6 | 0.1 | 0.34 | 0.06 | 0.18 |
| 92 | 91 | (2504,1087) | 1.34 | 5.2 | 1.4 | 0.92 | 1.22 | 1.34 |
| 93 | 92 | (1504,1121) | 4.51 | 18.2 | 16.0 | 0.92 | 4.28 | 4.67 |
| 94 | 93 | (2157,1082) | 0.16 | 0.4 | 0.1 | 0.51 | 0.06 | 0.12 |
| 95 | 94 | (2679,1093) | 0.82 | 3.1 | 0.6 | 0.90 | 0.73 | 0.81 |
| 96 | 95 | (1181,1091) | 0.25 | 0.8 | 0.1 | 0.48 | 0.12 | 0.25 |
| 97 | 96 | (2082,1091) | 0.36 | 1.1 | 0.1 | 0.71 | 0.23 | 0.33 |
| 98 | 97 | (851,1091) | 0.25 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 99 | 98 | (1575,1102) | 0.33 | 1.1 | 0.1 | 0.85 | 0.25 | 0.29 |
| 100 | 99 | (1379,1103) | 0.35 | 1.2 | 0.1 | 0.75 | 0.26 | 0.35 |
| 101 | 100 | (2042,1114) | 1.16 | 4.6 | 1.1 | 0.91 | 1.04 | 1.15 |
| 102 | 101 | (1671,1107) | 0.25 | 0.8 | 0.1 | 0.71 | 0.17 | 0.23 |
| 103 | 102 | (2230,1119) | 0.52 | 1.9 | 0.3 | 0.85 | 0.42 | 0.49 |
| 104 | 103 | (1307,1119) | 0.25 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 105 | 104 | (2529,1123) | 0.29 | 1.0 | 0.1 | 0.90 | 0.23 | 0.26 |
| 106 | 105 | (1422,1123) | 0.20 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 107 | 106 | (2571,1124) | 0.23 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 108 | 107 | (2516,1148) | 2.34 | 9.3 | 4.3 | 0.95 | 2.23 | 2.35 |
| 109 | 108 | (2332,1132) | 0.12 | 0.2 | 0.1 | 0.01 | 0.01 | 0.06 |
| 110 | 109 | (2817,1141) | 0.79 | 3.0 | 0.5 | 0.91 | 0.70 | 0.77 |
| 111 | 110 | (1244,1155) | 2.07 | 8.0 | 3.4 | 0.93 | 1.95 | 2.11 |
| 112 | 111 | (1439,1143) | 0.29 | 1.0 | 0.1 | 0.60 | 0.18 | 0.29 |
| 113 | 112 | (1182,1175) | 3.36 | 13.4 | 8.9 | 0.90 | 3.13 | 3.49 |
| 114 | 113 | (2589,1146) | 0.23 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 115 | 114 | (2636,1160) | 1.28 | 5.1 | 1.3 | 0.87 | 1.15 | 1.34 |
| 116 | 115 | (2595,1163) | 1.38 | 5.4 | 1.5 | 0.91 | 1.28 | 1.41 |
| 117 | 116 | (2682,1159) | 0.25 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 118 | 117 | (1806,1166) | 0.31 | 1.1 | 0.1 | 0.81 | 0.23 | 0.29 |
| 119 | 118 | (2254,1187) | 1.29 | 5.0 | 1.3 | 0.93 | 1.20 | 1.29 |
| 120 | 119 | (874,1183) | 0.25 | 0.8 | 0.1 | 0.67 | 0.17 | 0.25 |
| 121 | 120 | (2638,1189) | 0.22 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 122 | 121 | (1924,1199) | 0.52 | 1.9 | 0.3 | 0.85 | 0.42 | 0.49 |
| 123 | 122 | (1425,1198) | 0.15 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 124 | 123 | (1171,1207) | 0.28 | 0.9 | 0.1 | 0.90 | 0.23 | 0.26 |
| 125 | 124 | (2517,1217) | 0.86 | 3.2 | 0.6 | 0.93 | 0.77 | 0.83 |
| 126 | 125 | (2447,1213) | 0.25 | 0.8 | 0.1 | 0.41 | 0.12 | 0.29 |
| 127 | 126 | (2347,1232) | 1.68 | 6.7 | 2.3 | 0.93 | 1.57 | 1.69 |
| 128 | 127 | (2247,1223) | 0.25 | 0.8 | 0.1 | 0.71 | 0.17 | 0.23 |
| 129 | 128 | (1440,1229) | 0.12 | 0.2 | 0.1 | 0.01 | 0.01 | 0.06 |
| 130 | 129 | (1259,1233) | 0.36 | 1.3 | 0.1 | 0.84 | 0.29 | 0.35 |
| 131 | 130 | (1428,1236) | 0.38 | 1.3 | 0.2 | 0.80 | 0.29 | 0.37 |
| 132 | 131 | (1736,1254) | 1.07 | 4.2 | 0.9 | 0.94 | 0.97 | 1.04 |
| 133 | 132 | (1044,1248) | 0.16 | 0.4 | 0.1 | 0.51 | 0.06 | 0.12 |
| 134 | 133 | (860,1254) | 0.36 | 1.2 | 0.1 | 0.68 | 0.25 | 0.37 |
| 135 | 134 | (1644,1253) | 0.20 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 136 | 135 | (1835,1264) | 0.12 | 0.2 | 0.1 | 0.01 | 0.01 | 0.06 |
| 137 | 136 | (2538,1277) | 0.23 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 138 | 137 | (1934,1302) | 2.12 | 8.2 | 3.6 | 0.91 | 1.95 | 2.16 |
| 139 | 138 | (2267,1289) | 0.25 | 0.8 | 0.1 | 0.45 | 0.12 | 0.26 |
| 140 | 139 | (1668,1293) | 0.20 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 141 | 140 | (2362,1300) | 0.29 | 1.0 | 0.1 | 0.90 | 0.23 | 0.26 |
| 142 | 141 | (1777,1313) | 0.25 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 143 | 142 | (1753,1321) | 0.40 | 1.5 | 0.2 | 0.63 | 0.26 | 0.42 |
| 144 | 143 | (2718,1333) | 1.64 | 6.3 | 2.2 | 0.94 | 1.54 | 1.65 |
| 145 | 144 | (831,1326) | 0.27 | 1.0 | 0.1 | 0.48 | 0.17 | 0.35 |
| 146 | 145 | (1365,1329) | 0.20 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 147 | 146 | (1295,1334) | 0.15 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 148 | 147 | (876,1355) | 0.37 | 1.4 | 0.2 | 0.34 | 0.18 | 0.52 |

| | | | | | | | | |
|-----|-----|-------------|------|------|------|------|------|------|
| 149 | 148 | (1160,1383) | 2.73 | 10.6 | 5.9 | 0.92 | 2.57 | 2.80 |
| 150 | 149 | (1242,1396) | 3.37 | 13.4 | 8.9 | 0.87 | 3.04 | 3.51 |
| 151 | 150 | (2400,1390) | 2.48 | 9.8 | 4.9 | 0.95 | 2.36 | 2.50 |
| 152 | 151 | (928,1382) | 0.31 | 1.1 | 0.1 | 0.81 | 0.23 | 0.29 |
| 153 | 152 | (1526,1391) | 0.46 | 1.6 | 0.2 | 0.56 | 0.29 | 0.52 |
| 154 | 153 | (985,1417) | 2.58 | 10.3 | 5.3 | 0.95 | 2.46 | 2.61 |
| 155 | 154 | (2424,1404) | 0.15 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 156 | 155 | (2123,1416) | 1.26 | 5.1 | 1.3 | 0.93 | 1.17 | 1.26 |
| 157 | 156 | (1644,1423) | 0.29 | 1.0 | 0.1 | 0.90 | 0.23 | 0.26 |
| 158 | 157 | (2021,1473) | 5.03 | 20.2 | 19.9 | 0.93 | 4.81 | 5.21 |
| 159 | 158 | (1322,1441) | 0.33 | 1.1 | 0.1 | 0.85 | 0.25 | 0.29 |
| 160 | 159 | (2142,1444) | 0.16 | 0.4 | 0.1 | 0.51 | 0.06 | 0.12 |
| 161 | 160 | (1735,1469) | 2.75 | 10.9 | 6.0 | 0.95 | 2.62 | 2.79 |
| 162 | 161 | (1152,1446) | 0.12 | 0.2 | 0.1 | 0.01 | 0.01 | 0.06 |
| 163 | 162 | (1146,1452) | 0.12 | 0.2 | 0.1 | 0.01 | 0.01 | 0.06 |
| 164 | 163 | (1889,1462) | 0.66 | 2.8 | 0.4 | 0.90 | 0.58 | 0.64 |
| 165 | 164 | (845,1460) | 0.12 | 0.2 | 0.1 | 0.01 | 0.01 | 0.06 |
| 166 | 165 | (1264,1463) | 0.12 | 0.2 | 0.1 | 0.01 | 0.01 | 0.06 |
| 167 | 166 | (843,1466) | 0.27 | 0.9 | 0.1 | 1.00 | 0.23 | 0.23 |
| 168 | 167 | (1584,1465) | 0.21 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 169 | 168 | (1342,1499) | 3.84 | 15.6 | 11.6 | 0.87 | 3.46 | 4.01 |
| 170 | 169 | (1126,1472) | 0.18 | 0.4 | 0.1 | 0.34 | 0.06 | 0.18 |
| 171 | 170 | (1535,1482) | 0.13 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 172 | 171 | (891,1488) | 0.46 | 1.7 | 0.2 | 0.64 | 0.33 | 0.51 |
| 173 | 172 | (1404,1508) | 0.19 | 0.5 | 0.1 | 0.71 | 0.12 | 0.17 |
| 174 | 173 | (2501,1512) | 0.31 | 1.0 | 0.1 | 0.90 | 0.23 | 0.26 |
| 175 | 174 | (2139,1514) | 0.18 | 0.4 | 0.1 | 1.00 | 0.12 | 0.12 |
| 176 | 175 | (1674,1521) | 0.63 | 2.3 | 0.4 | 0.93 | 0.58 | 0.62 |
| 177 | 176 | (2147,1521) | 0.25 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 178 | 177 | (994,1539) | 2.16 | 8.7 | 3.7 | 0.91 | 1.99 | 2.20 |
| 179 | 178 | (1110,1524) | 0.16 | 0.4 | 0.1 | 0.51 | 0.06 | 0.12 |
| 180 | 179 | (1499,1526) | 0.36 | 1.3 | 0.2 | 0.80 | 0.29 | 0.37 |
| 181 | 180 | (2424,1550) | 3.05 | 11.9 | 7.3 | 0.92 | 2.86 | 3.12 |
| 182 | 181 | (1904,1593) | 3.79 | 15.5 | 11.3 | 0.90 | 3.53 | 3.93 |
| 183 | 182 | (1790,1586) | 1.06 | 4.2 | 0.9 | 0.88 | 0.95 | 1.08 |
| 184 | 183 | (2632,1583) | 0.67 | 2.6 | 0.4 | 0.92 | 0.59 | 0.64 |
| 185 | 184 | (1517,1595) | 0.19 | 0.5 | 0.1 | 0.67 | 0.12 | 0.18 |
| 186 | 185 | (2222,1603) | 0.25 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 187 | 186 | (1264,1618) | 0.20 | 0.6 | 0.1 | 0.26 | 0.06 | 0.23 |
| 188 | 187 | (2326,1626) | 0.72 | 2.7 | 0.4 | 0.89 | 0.62 | 0.70 |
| 189 | 188 | (1449,1645) | 2.52 | 10.3 | 5.0 | 0.92 | 2.35 | 2.57 |
| 190 | 189 | (1724,1629) | 0.42 | 1.6 | 0.2 | 0.79 | 0.33 | 0.42 |
| 191 | 190 | (1294,1630) | 0.43 | 1.5 | 0.2 | 0.79 | 0.33 | 0.42 |
| 192 | 191 | (1576,1636) | 0.94 | 3.6 | 0.7 | 0.94 | 0.86 | 0.92 |
| 193 | 192 | (1243,1634) | 0.29 | 1.0 | 0.1 | 0.64 | 0.17 | 0.26 |
| 194 | 193 | (978,1639) | 0.72 | 2.8 | 0.4 | 0.84 | 0.59 | 0.70 |
| 195 | 194 | (2016,1664) | 2.94 | 11.8 | 6.8 | 0.90 | 2.71 | 3.04 |
| 196 | 195 | (1198,1665) | 2.10 | 8.5 | 3.5 | 0.93 | 1.99 | 2.15 |
| 197 | 196 | (2313,1658) | 1.35 | 5.3 | 1.5 | 0.92 | 1.22 | 1.34 |
| 198 | 197 | (1420,1662) | 0.60 | 2.3 | 0.3 | 0.84 | 0.49 | 0.59 |
| 199 | 198 | (2714,1661) | 0.27 | 0.8 | 0.1 | 0.68 | 0.18 | 0.26 |
| 200 | 199 | (1916,1666) | 0.39 | 1.3 | 0.2 | 0.58 | 0.23 | 0.40 |
| 201 | 200 | (1074,1668) | 0.26 | 0.8 | 0.1 | 0.64 | 0.17 | 0.26 |
| 202 | 201 | (2551,1714) | 4.11 | 21.5 | 13.3 | 0.60 | 3.27 | 5.48 |
| 203 | 202 | (1728,1686) | 0.12 | 0.2 | 0.1 | 0.01 | 0.01 | 0.06 |
| 204 | 203 | (2276,1701) | 0.21 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 205 | 204 | (1944,1709) | 0.83 | 3.1 | 0.6 | 0.87 | 0.73 | 0.83 |
| 206 | 205 | (2007,1740) | 4.24 | 17.0 | 14.1 | 0.86 | 3.77 | 4.39 |

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|-----|-----|-------------|------|------|------|------|------|------|
| 207 | 206 | (2324,1721) | 0.54 | 1.9 | 0.3 | 0.90 | 0.46 | 0.51 |
| 208 | 207 | (1119,1721) | 0.25 | 0.8 | 0.1 | 0.64 | 0.17 | 0.26 |
| 209 | 208 | (2409,1722) | 0.31 | 1.0 | 0.1 | 0.90 | 0.23 | 0.26 |
| 210 | 209 | (2454,1732) | 0.81 | 3.1 | 0.6 | 0.79 | 0.65 | 0.83 |
| 211 | 210 | (2429,1727) | 0.21 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 212 | 211 | (2112,1729) | 0.25 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 213 | 212 | (1311,1738) | 0.27 | 0.9 | 0.1 | 0.64 | 0.17 | 0.26 |
| 214 | 213 | (1720,1741) | 0.51 | 1.9 | 0.2 | 0.88 | 0.42 | 0.48 |
| 215 | 214 | (1857,1743) | 0.26 | 0.8 | 0.1 | 0.76 | 0.18 | 0.23 |
| 216 | 215 | (2522,1745) | 0.42 | 1.5 | 0.2 | 0.84 | 0.35 | 0.42 |
| 217 | 216 | (2574,1764) | 1.03 | 4.0 | 0.9 | 0.92 | 0.95 | 1.03 |
| 218 | 217 | (2606,1758) | 0.13 | 0.3 | 0.1 | 0.01 | 0.01 | 0.09 |
| 219 | 218 | (1302,1791) | 2.87 | 11.6 | 6.5 | 0.91 | 2.69 | 2.97 |
| 220 | 219 | (2635,1773) | 0.51 | 1.9 | 0.3 | 0.71 | 0.37 | 0.52 |
| 221 | 220 | (1378,1781) | 1.30 | 5.0 | 1.4 | 0.91 | 1.20 | 1.33 |
| 222 | 221 | (1440,1795) | 2.15 | 8.7 | 3.7 | 0.85 | 1.95 | 2.30 |
| 223 | 222 | (2291,1780) | 0.41 | 1.6 | 0.2 | 0.75 | 0.26 | 0.35 |
| 224 | 223 | (1018,1791) | 0.35 | 1.2 | 0.1 | 0.76 | 0.25 | 0.33 |
| 225 | 224 | (1683,1806) | 1.92 | 7.5 | 2.9 | 0.92 | 1.79 | 1.95 |
| 226 | 225 | (2624,1802) | 0.60 | 2.2 | 0.3 | 0.88 | 0.51 | 0.59 |
| 227 | 226 | (1463,1824) | 2.38 | 10.0 | 4.5 | 0.80 | 2.05 | 2.58 |
| 228 | 227 | (2468,1816) | 0.13 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 229 | 228 | (2134,1821) | 0.20 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 230 | 229 | (2661,1836) | 0.94 | 3.5 | 0.7 | 0.90 | 0.83 | 0.92 |
| 231 | 230 | (2504,1835) | 0.37 | 1.2 | 0.2 | 0.89 | 0.29 | 0.33 |
| 232 | 231 | (2579,1838) | 0.15 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 233 | 232 | (1909,1843) | 0.25 | 0.8 | 0.1 | 0.71 | 0.17 | 0.23 |
| 234 | 233 | (2633,1871) | 0.19 | 0.5 | 0.1 | 1.00 | 0.12 | 0.12 |
| 235 | 234 | (1863,1878) | 0.15 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 236 | 235 | (1819,1896) | 1.76 | 6.8 | 2.5 | 0.92 | 1.64 | 1.79 |
| 237 | 236 | (1240,1893) | 0.47 | 1.6 | 0.2 | 0.73 | 0.35 | 0.48 |
| 238 | 237 | (1949,1904) | 0.87 | 3.2 | 0.6 | 0.97 | 0.80 | 0.83 |
| 239 | 238 | (1511,1907) | 0.12 | 0.2 | 0.1 | 0.01 | 0.01 | 0.12 |
| 240 | 239 | (1105,1933) | 2.79 | 11.3 | 6.2 | 0.89 | 2.55 | 2.87 |
| 241 | 240 | (1404,1935) | 0.63 | 2.3 | 0.4 | 0.98 | 0.57 | 0.59 |
| 242 | 241 | (1782,1963) | 3.14 | 12.5 | 7.8 | 0.93 | 2.98 | 3.22 |
| 243 | 242 | (1558,1947) | 0.49 | 1.8 | 0.2 | 0.83 | 0.40 | 0.49 |
| 244 | 243 | (2177,1967) | 2.62 | 10.6 | 5.4 | 0.91 | 2.45 | 2.71 |
| 245 | 244 | (1664,1964) | 0.60 | 2.1 | 0.3 | 0.90 | 0.51 | 0.58 |
| 246 | 245 | (2273,2005) | 5.10 | 20.3 | 20.5 | 0.95 | 4.91 | 5.19 |
| 247 | 246 | (1899,1977) | 0.18 | 0.4 | 0.1 | 1.00 | 0.12 | 0.12 |
| 248 | 247 | (2533,1981) | 0.64 | 2.3 | 0.4 | 0.93 | 0.58 | 0.62 |
| 249 | 248 | (1986,1984) | 0.29 | 1.0 | 0.1 | 0.54 | 0.18 | 0.33 |
| 250 | 249 | (1523,1990) | 0.23 | 0.7 | 0.1 | 0.45 | 0.12 | 0.26 |
| 251 | 250 | (1520,1995) | 0.16 | 0.4 | 0.1 | 0.45 | 0.06 | 0.13 |
| 252 | 251 | (2496,2005) | 0.56 | 2.1 | 0.3 | 0.92 | 0.48 | 0.52 |
| 253 | 252 | (1991,2014) | 0.95 | 3.6 | 0.7 | 0.94 | 0.86 | 0.92 |
| 254 | 253 | (1336,2013) | 0.23 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 255 | 254 | (1345,2016) | 0.13 | 0.3 | 0.1 | 0.01 | 0.01 | 0.09 |
| 256 | 255 | (1459,2027) | 0.58 | 2.2 | 0.3 | 0.81 | 0.48 | 0.59 |
| 257 | 256 | (1744,2074) | 1.55 | 6.0 | 1.9 | 0.94 | 1.45 | 1.54 |
| 258 | 257 | (1934,2080) | 2.35 | 9.2 | 4.4 | 0.89 | 2.14 | 2.41 |
| 259 | 258 | (1590,2068) | 0.18 | 0.4 | 0.1 | 0.71 | 0.12 | 0.17 |
| 260 | 259 | (1782,2073) | 0.25 | 0.8 | 0.1 | 1.00 | 0.18 | 0.18 |
| 261 | 260 | (1294,2093) | 1.19 | 4.5 | 1.1 | 0.89 | 1.08 | 1.22 |
| 262 | 261 | (1487,2093) | 0.86 | 3.2 | 0.6 | 0.91 | 0.75 | 0.83 |
| 263 | 262 | (1949,2122) | 2.54 | 9.9 | 5.1 | 0.88 | 2.33 | 2.68 |
| 264 | 263 | (2383,2106) | 0.67 | 2.4 | 0.4 | 0.79 | 0.58 | 0.73 |

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|-----|-----|-------------|------|-----|-----|------|------|------|
| 265 | 264 | (1379,2113) | 0.22 | 0.6 | 0.1 | 0.67 | 0.12 | 0.18 |
| 266 | 265 | (1821,2120) | 0.42 | 1.4 | 0.2 | 0.70 | 0.29 | 0.42 |
| 267 | 266 | (1601,2132) | 1.27 | 5.6 | 1.3 | 0.79 | 1.09 | 1.38 |
| 268 | 267 | (1735,2125) | 0.33 | 1.2 | 0.1 | 0.85 | 0.25 | 0.29 |
| 269 | 268 | (1646,2128) | 0.35 | 1.2 | 0.1 | 0.90 | 0.26 | 0.29 |
| 270 | 269 | (1704,2150) | 1.28 | 5.0 | 1.3 | 0.90 | 1.17 | 1.30 |
| 271 | 270 | (1997,2154) | 0.53 | 2.0 | 0.3 | 0.89 | 0.46 | 0.52 |
| 272 | 271 | (2333,2156) | 0.36 | 1.7 | 0.1 | 0.10 | 0.06 | 0.62 |
| 273 | 272 | (1765,2174) | 2.21 | 9.1 | 3.9 | 0.87 | 2.00 | 2.30 |
| 274 | 273 | (1626,2170) | 0.29 | 0.8 | 0.1 | 0.68 | 0.18 | 0.26 |
| 275 | 274 | (1664,2182) | 1.63 | 6.3 | 2.1 | 0.94 | 1.53 | 1.64 |
| 276 | 275 | (1846,2174) | 0.50 | 1.8 | 0.2 | 0.79 | 0.40 | 0.51 |
| 277 | 276 | (2087,2192) | 1.63 | 6.3 | 2.1 | 0.91 | 1.50 | 1.66 |
| 278 | 277 | (1443,2201) | 0.39 | 1.8 | 0.2 | 0.34 | 0.18 | 0.51 |
| 279 | 278 | (1450,2207) | 0.25 | 0.8 | 0.1 | 0.71 | 0.17 | 0.23 |
| 280 | 279 | (1941,2213) | 0.46 | 1.6 | 0.2 | 0.98 | 0.40 | 0.42 |
| 281 | 280 | (1964,2212) | 0.20 | 0.5 | 0.1 | 0.71 | 0.12 | 0.17 |
| 282 | 281 | (1475,2213) | 0.16 | 0.4 | 0.1 | 0.36 | 0.06 | 0.17 |
| 283 | 282 | (1589,2220) | 0.25 | 0.7 | 0.1 | 0.95 | 0.17 | 0.18 |
| 284 | 283 | (1487,2223) | 0.29 | 1.1 | 0.1 | 0.34 | 0.18 | 0.52 |
| 285 | 284 | (1505,2223) | 0.12 | 0.2 | 0.1 | 0.01 | 0.01 | 0.12 |
| 286 | 285 | (1510,2225) | 0.16 | 0.4 | 0.1 | 0.36 | 0.06 | 0.17 |
| 287 | 286 | (1517,2228) | 0.15 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 288 | 287 | (1533,2234) | 0.74 | 5.4 | 0.5 | 0.05 | 0.06 | 1.35 |
| 289 | 288 | (1991,2231) | 0.13 | 0.3 | 0.1 | 0.01 | 0.01 | 0.09 |
| 290 | 289 | (1523,2240) | 0.15 | 0.3 | 0.1 | 0.51 | 0.06 | 0.12 |
| 291 | 290 | (1529,2243) | 0.19 | 0.5 | 0.1 | 0.71 | 0.12 | 0.17 |
| 292 | 291 | (1539,2245) | 0.20 | 0.6 | 0.1 | 0.34 | 0.06 | 0.18 |
| 293 | 292 | (1555,2250) | 0.19 | 0.5 | 0.1 | 0.71 | 0.12 | 0.17 |
| 294 | 293 | (1812,2257) | 0.29 | 0.9 | 0.1 | 0.68 | 0.18 | 0.26 |
| 295 | 294 | (1568,2256) | 0.15 | 0.3 | 0.1 | 0.01 | 0.01 | 0.18 |